

CURRICULUM VITA

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EDUCATION:

Ph.D.	System Science	1971	Michigan State University
M.S.	Electrical Engineering	1968	North Dakota State University
B.S.	Electrical Engineering	1964	Seoul National University

Ph.D. Thesis: "Optimal Sampled-Data Control of Distributed Parameter Systems"

Advisor: Robert O. Barr

PROFESSIONAL EXPERIENCE:

8/07-Present	Baylor University	Professor & Chairman
8/07-Present	The Pennsylvania State University	Professor Emeritus
8/92-8/07	The Pennsylvania State University	Professor
8/86-8/92	The Pennsylvania State University	Associate Professor
9/76-8/86	University of Houston	Associate Professor
Su of 1976	Bonneville Power Administration	Electrical Engineer
9/75-8/76	Oregon State University	Assistant Professor
9/73-8/75	Michigan State University	Assistant Professor
12/71-8/73	Michigan State University	Research Associate
Su of 68, 69	Lockheed Ship Building and Construction	Electrical Engineer
5/66-8/67	Han Young Industrial Co.	Electrical Engineer
4/64-4/66	The Army Signal School	Instructor

RESEARCH INTERESTS:

Artificial intelligence, computational intelligence and multi-agent systems, and their applications to power & energy systems. Control, operation, and planning of power systems with renewable energy sources. Modeling, simulation and control of fossil-fuel, hydro and nuclear power plants and renewable energy sources, distributed generation, energy storage systems, V2G & G2V electric vehicles, and micro-grid.

PROFESSIONAL SOCIETY ACTIVITIES:

Fellow of IEEE
Editor, IEEE Transactions on Energy Conversion
Associate Editor, IEEE Transactions on Neural Networks
Associate Editor, IFAC Journal on Control Engineering Practice
Chair of IFAC Technical Committee 6.3 on Power and Energy Systems

Chair of IFAC Workshop on Control of Smart Grid and Renewable Energy Systems (CSGRES 2019), Jeju Island, Korea, June 2019

Chair of IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 2018

Chair of IFAC Workshop on Control of Transmission and Distribution Smart Grids (CTDSG 2016), Prague, Czech Republic, October 2016

Chair of IFAC Symposium on Control of Power and Energy Systems (CPES 2015), New Delhi, India, December 2015

Editor and Member of International Program Committee of IFAC Symposium on Power Systems and Power Plant Control (PSPPC 2003), Seoul, Korea, September 15-18, 2003

Tutorial Organizer on IFAC Tutorial on Evolutionary Computation Techniques for Power System Optimization, PSPPC 2003, Seoul, Korea, September 15-18, 2003

Member of International Program Committee of IFAC Symposium on Power Systems and Power Plant Control (PSPPC 1989), Seoul, Korea, August 22-25, 1989

Chair of the IEEE PES Working Group & Task Force on Modern Heuristic Optimization Methods

Member of IEEE Control Systems Society (CSS), Power and Energy Society (PES), Computational Intelligence Society (CIS)

Member of IEEE CSS Technical Committee on Smart Grid; Technical Committee on Power Generation

Tutorial Lecturer on Control of Power System and the Use of Neurocontrollers, IEEE PES Tutorial on Artificial Neural Networks, 1996

Tutorial Lecturer on Fuzzy Set Applications in Power Systems at the IEEE PES 1997 PICA Conference; IEEE PES 2000 Winter & Summer Meetings

Tutorial Organizer on IEEE Power Engineering Society Tutorial on Modern Heuristic Optimization Techniques with Applications to Power Systems, 2002 & 2003

Panelist on Multi-Agent Systems (MAS) in Power Engineering, IEEE Power Engineering Society General Meeting, San Francisco, CA, June 12-16, 2005

Panelist on Practical Applications of Intelligent Methods to Energy Conversion and Power Delivery Systems, IEEE PES Winter Meeting, New York, NY, Jan.29-Feb.2, 1995

Member of Board of Directors, the International Conference on Intelligent System Application to Power Systems (ISAP)

Chairman of Technical Program Committee of ISAP 1997, Seoul, Korea, July 1997

Vice-Chairman of Technical Program Committee of ISAP 1999, Rio, Brazil, April 1999

Chairman of Technical Program Committee of ISAP 2005, Washington, DC, November 2005

Member of International Advisory Committee of International Conference on Power System Technology (ICPST'94), Beijing, China, Oct. 18-21, 1994, and NSF Coordinator for U.S. Delegates

Coordinator and Co-chairman of NSF Sponsored U.S.-Korea International Workshop on Expert Systems for Electric Power Systems, Seoul, Korea, August 16-18, 1989

SUMMARY OF RESEARCH ACTIVITIES:

Supervised over 107 graduate students (31 Ph.D., 76 MS), conducted over 30 sponsored research projects, and published over 620 publications in refereed journals, conferences, book and book chapters. Managed over 31 research projects funded by external funding agencies including NSF, DOE, EPRI, Navy, Bonneville Power Administration, Houston Power & Light Company, Allegheny Power System, Doosan Heavy Industry & Construction Company, Korea Institute of Energy Technology Evaluation and Planning (KIETEP).

PUBLICATIONS:

1. Refereed Journal Articles

K. Y. Lee September 2019

1. Lee, K. Y., S. N. Chow and R. O. Barr, "On the Control of Discrete-Time Distributed Parameter Systems," SIAM Journal on Control, Vol. 10, No. 2, pp. 361-376, May 1972.
2. Lee, K. Y. and R. O. Barr, "Sampled-Data Optimization in Distributed Parameter System," IEEE Transactions on Automatic Control, Vol. AC-17, No. 6, pp. 806-809, December 1972.
3. Park, J. G. and K. Y. Lee, "An Inverse Optimal Control Problem and Its Application to the Choice of Performance Index for Economic Stabilization Policy," IEEE Transactions on Systems, Man and Cybernetics, Vol. SMC-5, No. 1, pp. 64-76, January 1975.
4. Lee, K. Y., R. O. Barr, S. H. Gage and A. N. Kharkar, "Formulation of a Mathematical Model for Insect Pest Control - the Cereal Leaf Beetle Problem," Journal of Theoretical Biology, Vol. 59, pp. 33-76, 1976.
5. Tacker, E. C., K. Y. Lee, T. D. Linton and C. W. Sanders, "The University of Houston Electric Energy Systems Control Program," IEEE Transactions on Education, Vol. E-21, No. 3, pp. 197-202, August 1978.
6. Taylor, C. W., K. Y. Lee and D. P. Dave, "Automatic Generation Control Analysis with Governor Deadband Effects," IEEE Transactions on Power Apparatus and Systems, Vol. PAS-98, pp. 2030-2036, Nov./Dec. 1979.
7. Lee, K. Y. and S. A. Hossain, "A Real-Time Predictive Controller for Automatic Voltage Regulation of a Synchronous Generator," Int. Journal of Electrical Power and Energy Systems, Vol. 1, No. 3, pp. 181-186, October 1979.
8. Trefny, F. J. and K. Y. Lee, "Economic Fuel Dispatch," IEEE Transactions on Power Apparatus and Systems, Vol. PAS-100, pp. 3468-3477, July/August 1981.
9. Lee, K. Y. and M. Belbachir, "A Decentralized Plant Controller for Automatic Generation and Voltage Regulation," J. Electric Power Systems Research, Vol. 5, pp. 41-51, 1982.
10. Meyer, F. J. and K. Y. Lee, "Improved Dynamic Load Model for Power System Stability Studies," IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, pp. 3303-3309, September 1982.
11. Lee, K. Y. and F. J. Meyer, "Dynamic Power System Load Modeling by Parameter Estimation," J. Electric Power Systems Research, Vol. 7, pp. 231-241, 1984.
12. Lee, K. Y., Y. M. Park and J. L. Ortiz, "Fuel Cost Minimization for Both Real and Reactive Power Dispatches," IEE Proceedings (London), Vol. 131, Pt. C, pp. 85-93, 1984. Park, Y. M. and K. Y. Lee, "Optimal Decentralized Load-Frequency Control," J. Electric Power Systems Research, Vol. 7, pp. 279-288, 1984.
14. Park, Y. M., K. Y. Lee and L.T.O. Youn, "Optimization Technique for Long-Range Generation Expansion Planning Using Maximum Principle and Gaussian Distribution Function," J. Electric Power Systems Research, Vol. 7, pp. 191-200, 1984.
15. Lee, K. Y., Y. M. Park and J. L. Ortiz, "An Optimal Real and Reactive Power Dispatch," J. Electric Power Systems Research, Vol. 7, pp. 201-212, 1984.
16. Lee, K. Y., Y. M. Park and J. L. Ortiz, "A United Approach to Optimal Real and Reactive Power Dispatch," IEEE Transaction on Power Apparatus and Systems, Vol. PAS-104, pp. 1147-1153, May 1985.
17. Park, Y. M., K. Y. Lee and L.T.O. Youn, "New Analytical Approach for Long-Term Generation Expansion Planning Based on Maximum Principle and Gaussian Distribution Function," IEEE Transaction on Power Apparatus and Systems, Vol. PAS-104, pp. 390-398, February 1985.
18. Lee, K. Y., J. L. Ortiz, Y. M. Park and L. G. Pond, "An Optimization Technique for Reactive Power Planning of Subtransmission Network Under Normal Operation," IEEE Transactions on Power Systems, Vol. PWRS-1, pp. 153-159, May 1986.
19. Youn, L.T.O., K. Y. Lee and Y. M. Park, "Optimal Long-Range Generation Expansion Planning for Hydro-Thermal System Based on Analytical Production Costing Model," IEEE Transactions on Power Systems, Vol. PWRS-2, pp. 278-286, May 1987.
20. Shiva, R., K. Y. Lee and J. A. Parker, "Parameter Estimation of Macroeconomic Systems Under Rational Expectations," International Journal of Systems Science, Vol. 18, pp. 1121-1137, 1987.
21. Lee, B. Y., Y. M. Park and K. Y. Lee, "Optimal Generation Planning for Thermal System with Pumped-Storage Based on Analytical Production Costing Model," IEEE Transactions on Power Systems, Vol. PWRS-2, pp. 486-493, May 1987.
22. Lee, K. Y. and S. A. Hossain, "Distributed Systems Approach to the Identification of Flexible Structures", Journal of Guidance, Control and Dynamics, Vol. 10, pp. 540-548, November-December 1987.
23. Lee, K. Y., J. L. Ortiz, M. A. Mohtadi and Y. M. Park, "Optimal Operation of Large-Scale Power Systems," IEEE Transactions on Power Systems, Vol. 3, pp. 413-420, May 1988.
24. Kim, K. J., Y. M. Park and K. Y. Lee, "Optimal Long-Term Transmission Expansion Planning Based on Maximum Principle," IEEE Transactions on Power Systems, Vol. 3, pp. 1494-1501,

- November 1988.
25. Edwards, R. M., K. Y. Lee and M. A. Schultz, "Optimal Control of Reactor Temperatures Using Reactivity," Transactions of American Nuclear Society, Vol. 61, pp. 287-288, June 1990.
 27. Edwards, R. M., K. Y. Lee and M. A. Schultz, "State Feedback Assisted Classical Control: An Incremental Approach to Control Modernization of Existing and Future Nuclear Reactors and Power Plants," Nuclear Technology, Vol. 92, pp. 167-183, November 1990.
 28. Park, J. H., Y. M. Park and K. Y. Lee, "Composite Modeling for Adaptive Short-Term Load Forecasting," IEEE Transactions on Power Systems, Vol. 6, pp. 450-457, May 1991.
 29. Lee, B. H. and K. Y. Lee, "A Study on Voltage Collapse Mechanism in Electric Power Systems," IEEE Transactions on Power Systems, Vol. 6, pp. 966-974, August 1991.
 30. Edwards, R. M., K. Y. Lee and A. Ray, "Multi-Layer Robust control for Operational Safety Improvement," Transactions of the American Nuclear Society, Vol. 63, pp. 402-403, June 1991.
 31. Lee, K. Y., C. C. Ku and R. M. Edwards, "A Neural Network for Adapting Nuclear Power Plant Control for Wide Range Operation," Transactions of the American Nuclear Society, Vol. 63, pp. 114-115, June 1991.
 32. Lee, K. Y., Y. T. Cha and J. H. Park, "Short-Term Load Forecasting Using an Artificial Neural Network," IEEE Transactions on Power Systems, Vol. 7, No. 1, pp. 124-132, February 1992.
 33. Edwards, R. M., K. Y. Lee and A. Ray, "Robust Fault-Accommodating Control of Nuclear Reactors and Power Plants," Nuclear Technology, Vol. 98, pp. 137-148, May 1992.
 34. Edwards, R. M., J. A. Turso, K. Y. Lee, H. E. Garcia and A. Ray, "The Penn State Intelligent Distributed Control Research Laboratory," IEEE Transactions on Energy Conversion, Vol. 7, pp. 478-482, September 1992.
 35. Edwards, R. M., H. E. Garcia and K. Y. Lee, "Experimental Development of Power Reactor Intelligent Control," Transactions of the American Nuclear Society, Vol. 66, pp. 373-374, November 1992.
 36. Ramaswamy, P., R. M. Edwards, and K. Y. Lee, "Wide-Range Nuclear Reactor Temperature Control Using Automatically Tuned Fuzzy Logic Control," Transactions of the American Nuclear Society, Vol. 66, pp. 101-103, November 1992.
 37. Ben-Abdenour, A., R. M. Edwards and K. Y. Lee, "LQG/LTR Robust Control of Nuclear Reactors with Improved Temperature Performance," IEEE Transactions on Nuclear Science, Vol. 39, No. 6, pp. 2286-2295, December 1992.
 38. Ku, C.-C., K. Y. Lee and R. M. Edwards, "Improved Nuclear Reactor Temperature Control Using Diagonal Recurrent Neural Networks," IEEE Transactions on Nuclear Science, Vol. 39, No. 6, pp. 2298-2309, December 1992.
 39. Mangoli, M. K., K. Y. Lee, and Y. M. Park, "Optimal Real and Reactive Power Control Using Linear Programming," Electric Power Systems Research, Vol. 26, pp. 1-10, 1993.
 40. Mangoli, M. K., K. Y. Lee and Y. M. Park, "Optimal Long Term Reactive Power Planning Using Decomposition Techniques," Electric Power Systems Research, Vol. 26, pp. 41-52, 1993.
 41. Lee, B. H. and K. Y. Lee, "Dynamic and Static Voltage Stability Enhancement of Power Systems," IEEE Transactions on Power Systems, Vol. 8, No. 1, pp. 231-238, 1993.
 42. Ben-Abdenour, A., K. Y. Lee and R. M. Edwards, "Multivariable Robust Control of a Power Plant Deaerator," IEEE Transactions on Energy Conversion, Vol. 8, No. 1, pp. 123-129, 1993.
 43. Khaldi, M. R., A. K. Sarkar, K. Y. Lee, and Y. M. Park, "The Modal Performance Measure for Parameter Optimization of Power System Stabilizers," IEEE Transactions on Energy Conversion, Vol. 8, No. 4, pp. 660-666, December 1993.
 44. Ramaswamy, P., R. M. Edwards, and K. Y. Lee, "An Automatic Tuning Method of a Fuzzy Logic Controller for Nuclear Reactors," IEEE Transactions on Nuclear Science, Vol. 40, No. 4, pp. 1253-1262, August 1993.
 45. Park, J. H., Y. S. Kim, I. K. Eom, and K. Y. Lee, "Economic Load Dispatch for Piecewise Quadratic Function Using Hopfield Neural Network," IEEE Transactions on Power Systems, Vol. 8, No. 3, pp. 1030-1038, August 1993.
 46. Wu, Z., V. K. Varadan, V. V. Varadan, and K. Y. Lee, "Design and Development of Smart Acoustic Absorber Using Piezoelectric Sensors and Actuators and State-Space Control," Journal of Wave-Material Interaction, Vol. 9, No. 3, pp. 53-67, July 1994.
 47. Ramaswamy, P., R. M. Edwards and K. Y. Lee, "Validating Real-time Implementations of Diagonal Recurrent Neural Network and Fuzzy Logic Controllers," Trans. Amer. Nucl. Soc., Vol. 71, pp. 364-365, November 1994.
 48. Ku, C. C. and K. Y. Lee, "Diagonal Recurrent Neural Network for Dynamic Systems Control," IEEE Transactions on Neural Networks, Vol. 6, pp. 144-156, January 1995.
 49. Park, Y. M., U. C. Moon, and K. Y. Lee, "A Self-Organizing Fuzzy Logic Controller for Dynamic

- Systems Using Fuzzy Auto-Regressive Moving Average (FARMA) Model," IEEE Transactions on Fuzzy Systems, Vol. 3, No. 1, pp. 75-82, February 1995.
50. Wu, Z., K. Varadan, V. V. Varadan, and K. Y. Lee, "Active Absorption of Acoustic Wave Using State-Space Model and Optimal Control Theory," Journal of Acoustic Society of America, Vol. 97, No. 2, pp. 1078-1087, February 1995.
 51. Wu, Z., V. K. Varadan, V. V. Varadan, and K. Y. Lee, "A State-Space Modeling of One-Dimensional Active Noise Control Systems," Transactions of the ASME, Journal of Vibration and Acoustics, Vol. 117, No. 2, pp. 220-225, April 1995.
 52. Lee, K. Y., X. Bai, and Y. M. Park, "Optimization Method for Reactive Power Planning Using a Genetic Algorithm," IEEE Transactions on Power Systems, Vol. 10, No. 4, pp. 1843-1850, November 1995.
 53. Dimeo, R. and K. Y. Lee, "Boiler-Turbine Control System Design Using a Genetic Algorithm," IEEE Transactions on Energy Conversion, Vol. 10, No. 4, pp. 752-759, December 1995.
 53. Ben-Abdenour, A. and K. Y. Lee, "A Decentralized Controller Design for a Power Plant Using Robust Local Controllers and Functional mapping," IEEE Transactions on Energy Conversion, Vol. 11, No. 2, pp. 394-400, June 1996.
 54. Ben-Abdenour, A. and K. Y. Lee, "An Autonomous Control system for Boiler-Turbine Units," IEEE Transactions on Energy Conversion, Vol. 11, No. 2, pp. 401-406, June 1996.
 55. Park, Y. M., M. S. Choi, J. W. Lee, B. H. Kim, and K. Y. Lee, "An Auxiliary LQG/LTR Robust Controller Design for Cogeneration Plants," IEEE Transactions on Energy Conversion, Vol. 11, No. 2, pp. 407-413, June 1996.
 56. Park, Y. M., M. S. Choi, and K. Y. Lee, "A Neural Network-Based Power System Stabilizer Using Power Floor Characteristics," IEEE Transactions on Energy Conversion, Vol. 11, No. 2, pp. 442-448, June 1996.
 57. Park, Y. M., U. C. Moon, and K. Y. Lee, "A Self-Organizing Power System Stabilizer Using Fuzzy Auto-Regressive Moving Average (FARMA) Model," IEEE Transactions on Energy Conversion, Vol. 11, No. 2, pp. 442-448, June 1996.
 58. Park, Y. M., M. S. Choi, and K. Y. Lee, "An Optimal Tracking Neuro-Controller for Nonlinear Dynamic Systems," IEEE Transactions on Neural Networks, Vol. 7, No. 5, pp. 1099-1110, September 1996.
 59. Zhao, Y., R. M. Edwards, and K. Y. Lee, "Hybrid Feedforward and Feedback Controller Design for Nuclear Steam Generators over Wide Range Operation Using Genetic Algorithm," IEEE Transactions on Energy Conversion, Vol. 12, No. 1, pp. 100-106, March 1997.
 60. Lukas, M. D., H. Ghezelayagh, and K. Y. Lee, "An Interactive Distributed Simulator for Commercial Power Plant," IEEE Transaction on Energy Conversion, Vol. 12, No. 3, pp. 259-265, September 1997.
 61. Park, Y. M., G.-W. Kim, H.-S. Choi, and K. Y. Lee, "A New Algorithm for Kohonen Layer Learning with Application to Power System Stability Analysis," IEEE Transactions on Systems, Man, and Cybernetics, Vol. 27, No. 6, pp. 1030-1033, December 1997.
 62. Lee, K. Y., "Author's Reply and Revision for Time-Varying Weights," IEEE Transactions on Neural Networks, Vol. 8, No. 3, pp. 813-814, May 1997.
 63. Lee, K. Y. and F. F. Yang, "Optimal Reactive Power Planning Using Evolutionary Algorithms: A Comparative Study for Evolutionary Programming, Evolutionary Strategy, Genetic Algorithm, and Linear Programming," IEEE Transactions on Power Systems, Vol. 13, No. 1, pp. 101-108, February 1998.
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 65. Lee, K. Y., A. Sode-Yome, and J. H. Park, "Adaptive Hopfield Neural Networks for Economic Load Dispatch," IEEE Transactions on Power Systems, Vol. 13, No. 2, pp. 519-526, May 1998.
 66. Batzel, T. D. and K. Y. Lee, "Commutation Torque Ripple Minimization for Permanent Magnet Synchronous Machines with Hall Effect Position Feedback," IEEE Transactions on Energy Conversion, Vol. 13, No. 3, pp. 257-262, September 1998.
 67. Park, Y. M., J. H. Lee, S. H. Hyun, and K. Y. Lee, "A Synchronous Generator Stabilizer based on Universal Model," Electric Power & Energy Systems, Vol. 20, pp. 435-442, 1998.
 68. Crow, M. L., C. Singh, K. Olejniczak, K. Tomsovic, R. Christie, A. Pahwa, and K. Y. Lee, "Integrating Research into a Power Engineering Curriculum," IEEE Transactions on Power Systems, Vol. 14, No. 2, pp. 404-441, May 1999.
 69. Moon, U.-C., Y.-M. Park, and K. Y. Lee, "A Development of Power System Stabilizer With Fuzzy Auto-Regressive Moving average Model," Fuzzy Set and Systems, Vol. 102, pp. 95-101, 1999.

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71. Lukas, M. D., K. Y. Lee, and H. Ghezeli-Ayagh, "Development of a Stack Simulation Model for Control Study on Direct Reforming Molten Carbonate Fuel Cell Power Plant", IEEE Trans. on Energy Conversion, Vol. 14, No. 4, pp. 1651-1657, November 1999.
72. Park, J.-B., Y.-M. Park, J.-R. Won, and K. Y. Lee, "Economic Dispatch Solutions Using an Improved Genetic Algorithm based on the Multi-Stage Method and Directional Crossover," Engineering Intelligent Systems, Vol. 7, No. 4, pp. 219-225, December 1999.
73. Ghezelayagh, H. and K. Y. Lee, "Neuro-Fuzzy Identifier of a Boiler System," Engineering Intelligent Systems, Vol. 7, No. 4, pp. 227-231, December 1999.
74. Nam, H. K., Y. K. Kim, K. S. Shim, and K. Y. Lee, "A New Eigen-Sensitivity Theory of Augmented Matrix and Its Applications to Power System Stability Analysis," IEEE Transactions on Power Systems, Vol. 15, No. 1, pp. 363-369, February 2000.
75. Lee, K. Y., M. Perakis, D. R. Sevcik, N. I. Santoso, G. K. Lausterer, and T. Samad, "Intelligent Distributed Simulation and Control of Power Plant," IEEE Transactions on Energy Conversion, Vol. 15, No. 1, pp. 116-123, March 2000.
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77. Batzel, T. D. and K. Y. Lee, "Rotor Angle Estimation for Permanent Magnet Synchronous Machines with Hall Effect Position Sensors using Neural Networks," Engineering Intelligent Systems, Vol. 8, No. 1, pp. 59-66, March 2000.
78. Lee, K. Y., F. M. Nuroglu, and A. Sode-Yome, "Real Power Optimization with Load flow Using Adaptive Hopfield Neural Network," Engineering Intelligent Systems, Vol. 8, No. 1, pp. 53-58, March 2000.
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81. Garduno-Ramirez R. and K. Y. Lee, "Wide-Range Operation of a Power Unit via Feedforward Fuzzy Control," IEEE Transactions on Energy Conversion, Vol. 15, No. 4, pp. 421-426, December 2000.
82. Garduno-Ramirez R. and K. Y. Lee, "Multiobjective Optimal Power Plant Operation Through Coordinate Control with Pressure Set Point Scheduling," IEEE Transactions on Energy Conversion, Vol. 16, No. 2, pp. 115-122, June 2001.
83. Lukas, M. D., K. Y. Lee, and H. Ghezeli-Ayagh, "An Explicit Dynamic Model for Direct Reforming Carbonate Fuel Cell Stack", IEEE Trans. on Energy Conversion, Vol. 16, No. 3, pp. 289-295, September 2001.
84. Garduno-Ramirez, R. and K. Y. Lee, "A Multiobjective-Optimal Neuro-Fuzzy Extension to Power Plant Coordinated Control," Transactions of the Institute of Measurement and Control, Vol. 24, No. 2, pp. 159-192, 2002.
85. Lukas, M.D., K.Y. Lee, H. Ghezeli-Ayagh, "Modeling and Cycling Control of Carbonate Fuel Cell Power Plants," Control Engineering Practice, Vol. 10, pp. 197-206, 2002.
86. Jeon, Y.-J., J.-C. Kim, J.-O. Kim, J.-R. Shin, and K. Y. Lee, "An Efficient Simulated Annealing Algorithm for Network Reconfiguration in Large-Scale Distribution Systems," IEEE Trans. on Power Delivery, Vol. 17, No. 4, pp. 1070-1078, October 2002.
87. Moon, U.-C and K. Y. Lee, "A Boiler-Turbine System Control Using a Fuzzy Auto-Regressive Moving Average (FARMA) Model," IEEE Trans. on Energy Conversion, Vol. 18, No. 1, pp.142-148, March 2003.
88. Batzel, T. D. and K. Y. Lee, "An Approach to Sensorless Operation of the Permanent-Magnet Synchronous Motor Using Diagonally Recurrent Neural Networks," IEEE Trans. on Energy Conversion, Vol. 18, No. 1, pp. 100-106, March 2003.
89. Moon, U.-C and K. Y. Lee, "Hybrid Algorithm with Fuzzy System and Conventional PI Control for the Temperature Control of TV Glass Furnace," IEEE Transactions on Control Systems Technology, Vol. 11, No. 4, pp. 548-554, July 2003.
90. Farsangi, M. M., Y. H. Song, and K. Y. Lee, "Choice of FACTS Device Control Inputs for Damping Inter-Area Oscillations", IEEE Transactions on Power Systems, Vol. 19, No. 2, pp. 1135-1143, May 2004.
91. Huang, Z., R. M. Edwards, and K. Y. Lee, "Fuzzy-Adapted Recursive Sliding-Mode Controller Design For A Nuclear Power Plant Control", IEEE Transactions on Nuclear Science, Vol. 51, No. 1, pp. 256-266, February 2004.
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93. Liu, C., R. Yokoyama, Kaoru Koyanagi, and K. Y. Lee, "PSS Design for Damping of Inter-area Power Oscillations by Co-herency-based Equivalent Model", International Journal of Electrical Power & Energy Systems, Vol. 26, No. 7, pp. 535-544, 2004.
94. Ishimaru, M. R. Yokoyama, O. M. Neto, and K. Y. Lee, "Allocation and Design of Power System Stabilizers for Mitigating Low-Frequency Oscillations in the Eastern Interconnected Power System in Japan," International Journal of Electric Power & Energy Systems, Vol. 26, No. 8, pp. 607-618, 2004.
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96. Lee, B. H. and K. Y. Lee, "An Application of S-Model Learning Automata for Multi-Objective Optimal Operation of Power Systems," IEE Proceedings - Generation, Transmission and Distribution, Vol. 152, No. 2, pp. 295-300, March 2005.
97. Shaffer R. A., R. M. Edwards, and K. Y. Lee, "Design and Validation of Robust and Autonomous Control for Nuclear Reactors," Nuclear Engineering and Technology, Vol. 37, No. 2, pp. 139-150, April 2005.
98. Kim G. W. and K. Y. Lee, "Coordination Control of ULTC Transformer and STATCOM Based on an Artificial Neural Network," IEEE Transactions on Power Systems, Vol.20, No. 2, pp. 580-586, May 2005.
99. Ghezelayagh, H. and K. Y. Lee, "Application of Self-Organized Neuro-Fuzzy Identifier in Intelligent Predictive Control of a Power Plant," Engineering Intelligent Systems, Vol. 13, No. 2, pp. 113-118, June 2005.
100. Vlachogiannis J. G., N. D. Hatziargyriou, and K.Y. Lee, "Ant Colony System Based Algorithm for Constrained Load Flow Problem," IEEE Transactions on Power Systems, Vol. 20, No. 3, pp. 1241-1249, August 2005.
101. Vlachogiannis J. G. and K.Y. Lee, "Determining Generator Contributions to Transmission System Using Parallel Vector Evaluated Particle Swarm Optimization," IEEE Transactions on Power Systems, Vol. 20, No. 4, pp. 1765-1774, November 2005.
102. Garduno-Ramirez R. and K. Y. Lee, "Compensation of Control-Loop Interaction for Power Plant Wide-Range Operation," Control Engineering Practice, Vol. 13, No. 12, pp. 1475-1487, December 2005.
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417. Fu, Hao; Pan, Lei; Xue, Yali; Sun, Li; Li, Donghai; Lee, Kwang Y.; Wu, Zhenlong; He, Ting; Zheng, Song, "Cascaded PI Controller Tuning for Power Plant Superheated Steam Temperature based on Multi-Objective Optimization," Proc. of the IFAC World Congress, Toulouse, France, July 9-14, 2017.
418. Pan, Lei; Shen, Jiong; Wu, Xiao; Sun, Li; Lee, Kwang Y.; Wang, Haitao, "Model-Based Robust Adaptive Control for Power-Generating Systems in the Presence of Long Time Delay," Proc. of the IFAC World Congress, Toulouse, France, July 9-14, 2017.
419. Wu, Guiying; Lee, Kwang Y.; Sun, Li; Xue, Yali, "Coordinated Fuzzy Logic Control Strategy for Hybrid PV Array with Fuel-Cell and Ultra-Capacitor in a Microgrid," Proc. of the IFAC World Congress, Toulouse, France, July 9-14, 2017.
420. Wenlei Bai, Duehee Lee, and Kwang Y. Lee, "A Multivariate Time Series Forecast Model for Wind and Storage Integrated System Operation," Paper No. 17PESGM1776, IEEE Power Engineering Society General Meeting, Chicago, IL, July 16-20, 2017.
421. Wenlei Bai and Kwang Y. Lee, "Stochastic optimal load flow with wind and energy storage systems," Panel session "Modern Heuristic Optimization Techniques for Renewable Energy Sources Integration with Energy Storage Devices: Optimization Under Uncertainty," Paper No. 17PESGM2673, IEEE Power Engineering Society General Meeting, Chicago, IL, July 16-20, 2017.
422. Yanjian Peng, Yong Li, Kwang Y. Lee, Fang Liu, Fang Yang, and Bo Hu, "A Wind Power Integrated System Based on a Controllably Inductive Filtering and Compensation Method," Paper No. 17PESGM0485, IEEE Power Engineering Society General Meeting, Chicago, IL, July 16-20, 2017.
423. Md Shariful Islam, Mithulananthan Nadarajah, and Kwang Y. Lee, "Characterization of Charging Load for a Large Number of EV Units in Distribution Grids," Paper No. 17PESGM1333, IEEE Power Engineering Society General Meeting, Chicago, IL, July 16-20, 2017.
424. Ruifeng Shi, Y. Yang, and Kwang Y. Lee, "Multi-Objective EV Charging Stations Planning Based on Two-Layer Coding SPEA-II," Paper No. 61, the 19th International Conference on Intelligent System Applications to Power Systems (ISAP 2017), San Antonio, Texas, USA, September 17-20, 2017.
425. Wenlei Bai, Ibrahim Eke, and Kwang Y. Lee, "Optimal Scheduling of Distributed Energy Resources by Modern Heuristic Optimization Technique," Paper No. 63, the 19th International Conference on Intelligent System Applications to Power Systems (ISAP 2017), San Antonio, Texas, USA, September 17-20, 2017.
426. Feyijimi R. Adegbohun and Kwang Y. Lee, "Real-Time Modeling, Simulation and Analysis of a Grid Connected PV System with Hardware In-Loop Protection," Proc. 2017 North American Power Symposium, September 17-19, 2017.
427. Soumyadeep Nag and Kwang Y. Lee, "Optimal Scheduling and Dispatch of Pumped Hydro – Thermal – Wind Systems," Proc. 2017 North American Power Symposium, September 17-19, 2017.
428. Guiying Wu and Kwang Y. Lee, "Optimal Placement of Distributed Generations with Semidefinite Optimization Technique," Paper No. 18PESGM1588, IEEE Power Engineering Society General Meeting, Portland, OR, August 5-9, 2018.
429. Linjun Shi, Ladiier Fa, Jiangfeng Shi, Kemang Lin, Feng Wu, Kwang Y. Lee, Weiguo He, and Chun Wang "Accommodation Capacity for Wind Farm Based on the Static Security Constraints in Bulk Power Systems," Paper No. 18PESGM0815, IEEE Power Engineering Society General Meeting, Portland, OR, August 5-9, 2018.
430. Juanxia Xiao, Yong Li, Yi Tan, Chun hen, Yijia Cao, and Kwang Y. Lee, "A Robust Mixed-Integer Second-Order Cone Programming for Service Restoration of Distribution Network," Paper No. 18PESGM1314, IEEE Power Engineering Society General Meeting, Portland, OR, August 5-9, 2018.
431. Ruifeng Shi, Y. Yang, and Kwang Y. Lee "Bi-Level Day Ahead Optimization of V2G Dispatch Strategy Based on the Dynamic Discharging Electricity Price," Paper No. 99, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
432. J. Zhao, U. Oh, J. Choi, and Kwang Y. Lee "Probabilistic Reliability Evaluation on a Power System Considering Wind Energy with Energy Storage Systems in China," Paper No. 111, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.

433. L. Hu, Y. Li, W. Wang, Y. Tan, Y. Cao, and Kwang Y. Lee “Inertia Estimation of Power Grid with VSC-MTDC System,” Paper No. 47, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
434. Ruifeng Shi, S. Li, C. Sun, and Kwang Y. Lee “Multi-Dispatch for Grid-Connected Microgrid with Robust Optimization Algorithm,” Paper No. 101, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
435. U. Oh, J. Choi, K. H. Kim, J. Cha, and Kwang Y. Lee “A Study on Capacity Credit and ESS Evaluation for WTG and Multi-ESS in Power System,” Paper No. 108, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
436. C. Chen, Lei Pan, J. Shen, Kwang Y. Lee, F. Zhang, L. Sun, X. Wu, J. Zhang, and W. Xue, “Control of Nonlinear Constrained Ultra-Supercritical Boiler-Turbine Units Using Offset-Free Output-Feedback Stable MPC,” Paper No. 39, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
437. M. Zhu, J. Shen, and Kwang Y. Lee, “Modelling and Optimization of the Direct Air Cooling Power Generation Unit,” Paper No. 151, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
438. S. Nag and Kwang Y. Lee, “DFIM Based Variable Speed Operation of Francis Turbine for Efficiency Improvement,” Paper No. 153, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
439. M. Miao, Y. Li, Z. Wang, L. Ouyang, F. Liu, Kwang Y. Lee, and Y. Tan, “An Emergency Energy Management for AC/DC Multi Micro-Grids in Industrial Park,” Paper No. 57, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
440. J. Li, Y. Li, W. Wang, Y. Cao, Kwang Y. Lee, and F. Liu, “Fault-Ride through Control Strategy of Multi-Terminal High Voltage DC Systems,” Paper No. 112, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.
441. C. Zhu, L. Shi, F. Wu, Kwang Y. Lee, W. He, and K. Lin, “Capacity Optimization of Multi-Types of Distributed Generators Considering Reliability,” Paper No. 4, The 10-th IFAC Symposium on Control of Power and Energy Systems (CPES 2018), Tokyo, Japan, September 4-6, 2018.

RESEARCH PROJECTS:

1. “Optimal Coefficient Control of Distributed Parameter Systems,” NSF Research Initiation Grant (GK-42093) for 1974-76.
2. “IFIP Working Conference on Distributed Parameter Systems in Rome, Italy,” (NSF ENG76-20708).
3. “System Identification and Optimal Controller Design for Flexible Structures,” Air Force project for 1987-88.
4. “Neural Network Flight Control System for Dynamic Flight Simulator,” Environmental Tectonics Corp. project for 1992-94.
5. “Automatic Generation Control Development,” DOE/Bonneville Power Administration project for 1977-78.
6. “Long-Term Dynamic Simulation Program Development,” Houston Lighting & Power Company project for 1981-82.
7. “Optimal Reactive Power Planning,” Houston Lighting & Power Company project for 1985-86.
8. “Optimal Reactive Power Planning,” Allegheny Power System project for 1987-96.
9. “New Techniques for Optimization of Long-Term Power System Expansion Planning,” NSF project for 1987-90.
10. “U.S.-Korea Joint Seminar on the Application of Expert Systems to Power System and Industries,” NSF grant for 1989-90.
11. “Engineering Research Equipment Grant: Microprocessor-based Controllers,” NSF grant for 1989-90.
12. “Intelligent Distributed Control for Nuclear Power Plants,” DOE grant for 1989-93.
13. “A Knowledge-Based System for Reactive Power and Voltage Control,” NSF grant for 1991-92.
14. “International Conference on Power System Technology (ICPST ‘94), Beijing, China,” NSF, October 1994-September 1995, Amount: \$10,000, PI. Project ECS-9424319. (100%)
15. “Research and Curriculum Development for Power Plant Intelligent Distributed Control,” NSF, September 1992-August 1996, Amount: \$390,000 plus matching fund, PI Project EID-9212132. (60%)
16. “Experimental Development of Power Reactor Intelligent Control,” NSF/EPRI, January 1993-November 1997, Amount: \$300,000, Co-PI, Project ECS-9216504/RP8030-04. (50%)

17. "Intelligent Distributed Control for Power Plants and Power Systems," NSF, February 1993-February 1997, Amount: \$36,000, PI, Project INT-922303. (100%)
18. "Power Systems Control," Kaiser Aluminum/H. S. Yang, September 1994-August 1996, Amount: \$21,000, PI. (100%)
19. "Intelligent Control and Dynamic Simulation of Carbonate Fuel Cell Power Plant as Distributed Generation Systems," NSF SBIR/Fuel Cell Engineering, January 1996 - February 1997, Amount: \$21,000, PI. (100%)
20. "Optimal Reactive Power Planning," Allegheny Power System, August 1987 - December 1999, Amount: \$120,000, PI. (100%)
21. "Development of Power System Intelligent Distributed Control", NSF, July 1997-June 2000, Amount: \$170,000, PI, Project INT-9605028. (100%)
22. "Free-Model Based Intelligent control of Power Plants and Power Systems," NSF, January 1998 - December 2001, Amount: \$237,000, PI, Project ECS-9705105. (100%)
23. "Development of a Dynamic Simulation Model for a Ship Service Fuel Cell Power Plant," Energy Research Corporation and U.S. Navy, January 1999-August 2002, Amount: \$75,000, PI, Contract N00167-97-C-0080. (100%)
24. "Intelligent Monitoring System with High Temperature Distributed Fiberoptic Sensor for Power Plant Combustion Processes", DOE, January 2002 – September 2006, Amount: \$200,000, PI, (40%)
25. "Neural Network Supervisor Development for Hybrid Fuel Cell/Gas Turbine System," DOE STTR/FuelCell Energy, Inc. Phase II, September 2004 – June 2006, Amount: \$70,000, PI, DOE Grant No. DE-FG02-02ER86140 (100%)
26. "Development of System-Type Neural Network Architectures for Distributed Parameter Systems Using Algebraic Decomposition," NSF, September 2006 – August 2009, Amount: \$240,000 plus \$74,321 matching, PI (100%)
27. "Design of Main Steam Temperature and Pressure Control System for Super Critical Boiler System," Doosan Heavy Industries and Construction Company, January 2006 – June 2006, Amount: \$60,000, PI (100%)
28. "Development of Multi Objective Optimal Controller and Process Model for Ultra Super Critical Boiler System," Doosan Heavy Industries and Construction Company, September 2006 – August 2007, Amount: \$160,000, PI (100%)
29. "Implementation of Auto-Tuning PID and MPOC for Steam Temperature Control on USC Boiler," Doosan Heavy Industries and Construction Company, February 2008 – August 2008, Amount: \$120,000, PI (100%)
30. "Multi-Agent System Based Intelligent Distributed Control System for Power Plants", NSF, June 2008 – May 2012, Amount: \$330,000, PI (80%), Co-PIs: Robert Marks II (10%) and Ian Gravagne (10%).
31. "International Collaborative R&D Program: Joint Research on Core Technologies and Development Strategies for Smart Grid," Korea Institute of Energy Technology Evaluation and Planning (KIETEP), October 2010 – December 2012, Amount: \$20,000, PI (100%).

RESEARCH AWARDS OR HONORS:

1. IEEE Power and Energy Society (PES) Technical Committee Distinguished Service Award, August 2018.
2. Pennsylvania State Engineering Society (PSES) Outstanding Research Award, 2001.
3. Elected Fellow of IEEE, January 2001. Citation: For contributions to the development and implementation of intelligent system techniques for power plants and power systems control.
4. Best Paper Award in the IEEE Power Engineering Society EDPG, July 2000. Title: An Autonomous Control System for Boiler-Turbine Units, IEEE Trans. on Energy Conversion, Vol. 11, No. 2, pp. 401-406.
5. Nominated for Pennsylvania State Engineering Society (PSES) Premier Research Award, 2007.
6. Third Place Award in Best Paper Competition at the International Conference on Intelligent System Applications to Power Systems (ISAP), November 4-8, 2007, Kaohsiung, Taiwan. Title: An Adaptive Dynamic Matrix Control of a Boiler-Turbine System Using Fuzzy Inference